
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, TULSA DISTRICT

15190.TD JAN 97 JSH

TULSA DISTRICT GUIDE SPECIFICATION

SECTION 15190

IDENTIFICATION OF PIPING

PART 1 GENERAL

1.1 SUMMARY

This section covers identification of the mechanical piping systems.

PART 2 PRODUCTS

2.1 PAINT FOR IDENTIFICATION BANDS AND BLOCKS

Bands or block paints shall be as specified in SECTION 09900 - PAINTING, GENERAL for the finish specified.

2.2 COLOR

The colors used shall conform to the color chips submitted by the Contractor and approved by the Government. Colors shall be as follows:

2.3 PRESSURE SENSITIVE PIPE MARKERS

At the option of the Contractor, pressure-sensitive pipe markers of the applicable size and color may be used.

2.4 BRASS TAGS

Where pipes are too small for such application, a brass identification tag shall be fastened securely at specified locations. Tags shall be $38 \text{ mm} \ 1 \ 1/2\text{-inch}$ in diameter with depressed black figures $13 \ \text{mm} \ 1/2\text{-inch}$ high.

PART 3 EXECUTION

3.1 APPLICATION

Bands and blocks shall be a minimum of two coats of gloss paint. Surface preparation, materials, and application of paint shall conform to the requirements of the SECTION 09900 PAINTING, GENERAL. Color of bands or blocks shall be as specified hereinafter. Legends and bands or blocks shall be placed to be easily read from operating positions. Adjacent to legend, arrows shall be painted to indicate the direction of flow of material under normal operating conditions.

3.2 LOCATIONS

All piping in buildings and heating tunnels shall be identification painted with bands or blocks and legends of colors herein designated. Plumbing and heating piping in finished spaces such as offices and quarters shall not be color banded. Banding or blocking and legends shall be applied to the piping at locations as follows:

- a. Adjacent to each valve.
- b. Adjacent to each strainer.
- c. Each branch and riser at take-off.
- d. At each pipe passage through wall, floor and ceiling construction.
- e. At each pipe passage to underground.
- f. At not more than 12 meter 40 feet spacing on straight pipe runs.

3.3 BAND OR BLOCK AND LETTER SIZE

The band or block and letter sizes corresponding to the applicable outside diameter of pipe or pipe covering shall be used. Upper case letters and Arabic numerals shall be used. Sizes are as follows:

Outside Diameter of Pipe or Covering		Size of Legend Letters and Numerals 1/2" 3/4" 1 1/4" 2 1/2"
Over 10"	32"	3 1/2"
Outside Diameter of Pipe or Covering		Size of Legend Letters and Numerals
19 mm to 32 mm	200 mm	13 mm
38 mm to 50 mm	200 mm	19 mm
64 mm to 150 mm	300 mm	32 mm
200 mm to 250 mm	600 mm	64 mm

3.4 LEGENDS

The applicable legends and bands or blocks shall be selected from the following:

<u>Service</u>		or Block <u>Color</u>	Legend <u>Color</u>
Boiler Feedwater Butane Gas Potable Water Compressed Air Condensate Condensing Water Supply Condensing Water Return Diesel Oil Exhaust Steam Fire Protection Water Fuel Oil High Temp. Water Supply High Temp. Water Return Instrument Air Makeup Water Propane Gas Raw Water Chilled Water Supply Chilled Water Return	B. F. Water Butane Gas Potable Water (1) Comp. Air# (2) CondensatePress Cond. Water Supply Cond. Water Return	Black	_
Steam Treated Water Vacuum	(5) Steam#Press Treated Water Vacuum	Black Black Black	Yellow Green Green

Supply Return

Combination Chilled Chilled-Hot Water and Hot Water Supply Yellow Black Combination Chilled Chilled-Hot Water and Hot Water Return Black Yellow

- (1) Include maximum working pressure.
- Include, HI, MED or LO. (2)
- Specify the grade of fuel oil. (3)
- (4) Show the maximum working temperature.(5) Indicate the maximum working pressure.